

CLAIMS

1. A movable side step for a vehicle comprising:
a fixing means being connected to a body frame of the
5 lower portion of the vehicle;
a stepping means being connected movably in forward and
out backward to said fixing means; and
an operating means for operating said stepping means
according to the opening/shutting of a door of said vehicle.
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2. The movable side step as claimed in claim 1, said
fixing means comprises a front frame and a rear frame which
are arranged with a predetermined distance, wherein said
front frame and rear frame are provided with an upper roller
15 and a lower roller respectively in order to help the moving
of said stepping means.
3. The movable side step as claimed in claim 2, said
front frame and rear frame further comprises an elastic
20 member being mounted on the upper portion of said upper roller
of said front frame and on the lower portion of said lower
roller of said rear frame in order to relieve an outer force
being applied to said stepping means.

4. The movable side step as claimed in claim 2, said stepping means comprises a guide bar being interposed between said upper roller and lower roller of said front frame and rear frame, and a foothold being connected to the front of said
5 guide bar.

5. The movable side step as claimed in claim 4, said front frame and rear frame comprises an elastic member being installed on the upper portion of said upper roller of said
10 front frame and on the lower portion of said lower roller of said rear frame in order to relieve an outer force being applied to said guide bar and said foothold.

6. The movable side step as claimed in claim 1, said
15 operating means comprises a rotating link being rotatably connected to said fixing means, a door connecting rod being fixedly connected to one end of said rotating link, and a operating member being rotatably connected to the other end of said rotating link and connecting to said stepping means.

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7. The movable side step as claimed in claim 6, said operating member comprises an operating rod being fixedly connected to said stepping means, an operating rod bracket being rotatably connected to said rotating link and being

movably connected to said operating rod, and an elastic member covering said operating rod and being blocked at one end to be moved by said operating rod bracket.

5 8. The movable side step as claimed in claim 6, said operating means further comprises a door connecting bracket being fixedly connected to said door and being rotatably connected to said door connecting rod.

10 9. A movable side step for a vehicle comprising:
 a fixing frame being connected to a body frame of the lower portion of the vehicle;
 a connecting frame for fixedly connecting said fixing frame;
15 a guide bar being connected movably in forward and out backward to said fixing frame;
 a foothold being connected to the front of said guide bar;
 a rotating link rotatably connected to the intermediate
20 of said connecting frame with a predetermined distance;
 an operating member having one end being rotatably connected to one end of said rotating link and the other end being connected to one of said guide bar and said foothold;

a door connecting rod being fixedly connected to the other end of said rotating link; and

a door connecting bracket being rotatably connected to said door connecting rod and being fixedly connected to said
5 door.

10. The movable side step as claimed in claim 9, said fixing frame comprises a front frame and a rear frame, wherein said front frame and rear frame are fixedly connected to each
10 other by a supporting member.

11. The movable side step as claimed in claim 10, said front frame and rear frame comprises an upper roller and a lower roller in order to help the moving of said guide bar.

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12. The movable side step as claimed in claim 11, said front frame and rear frame further comprises an elastic member being mounted on the upper portion of said upper roller of said front frame and on the lower portion of said
20 lower roller of said rear frame in order to relieve an outer force being applied to said guide bar and said foothold.

13. The movable side step as claimed in claim 9, said operating member comprises an operating rod being fixedly

connected to one of said guide bar and said foothold, an operating rod bracket being rotatably connected to said rotating link and being movably connected to said operating rod, and an elastic member covering said operating rod and
5 being blocked at one end to be moved by said operating rod bracket.

14. A movable side step for a vehicle comprising:
two front frames and two rear frames being connected to
10 a body frame of the lower portion of the vehicle;
a supporting member for fixedly connecting said front frame and said rear frame;
a connecting member for fixedly connecting two rear frames to each other;
15 a guide bar being connected movably in forward and out backward to said front frame and rear frame;
a foothold being connected to the front of said guide bar;
an upper roller and a lower roller being installed on
20 said front frame and rear frame to contact the upper and lower portion of said guide bar in order to help the moving of said guide bar;
an elastic member being installed on the upper portion of said upper roller of said front frame and the lower portion

of said lower roller of said rear frame in order to relieve the outer force being applied to said guide bar and said foothold;

an elastic link being rotatably connected to the
5 intermediate of said connecting frame with a predetermined distance;

an operating rod being fixedly connected to one of said guide bar and said foothold;

an operating rod bracket being rotatably connected to
10 one end of said rotating link and being movably connected to said operating rod;

an elastic member covering said operating rod and being blocked at one end to be moved by said operating rod bracket;

a door connecting rod being fixedly connected to the
15 other end of said rotating link; and

a door connecting bracket being rotatably connected to said door connecting rod and being fixedly connected to said door.